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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/847,188	05/01/2001	Kim Fung Lee	75622.P0035	5100	
22503 75	11/13/2003		EXAM	EXAMINER	
DAVIS & ASSOCIATES			HA, DAC V		
P.O. BOX 1093 DRIPPING SPRINGS, TX 78620			ART UNIT	PAPER NUMBER	
	,		2634	P	
			DATE MAILED: 11/13/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	09/847,188	LEE, KIM FUNG			
Office Action Summary	Examiner	Art Unit			
The MAN INC DATE of this communication	Dac V. Ha	2634			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed is will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)⊠ Responsive to communication(s) filed on					
	-· action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 and 10-13 is/are rejected. 7) ☐ Claim(s) 7-9 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers	•				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner	epted or b) objected to by the l drawing(s) be held in abeyance. Sec on is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. §§ 119 and 120					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of the since a specific reference was included in the firs 37 CFR 1.78. a) The translation of the foreign language provided the priority documents application from the International Bureau to the since a specific reference was included in the first sentence of the priority documents application from the International Bureau to the since a specific reference was included in the first sentence of the priority documents application from the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the priority documents application from the International Bureau to the	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)). of the certified copies not received priority under 35 U.S.C. § 119(at sentence of the specification or evisional application has been received priority under 35 U.S.C. §§ 120	on No ed in this National Stage ed. e) (to a provisional application) in an Application Data Sheet. eived. and/or 121 since a specific			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)			

Application/Control Number: 09/847,188

Art Unit: 2634

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claim 1-3, 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Gambuzza (US 6,226,331).

Regarding claim 1, Gambuzza teaches the claimed subject matter as followed.

"a hybrid network having a hybrid input, a receive input, and a hybrid output, wherein the receive input is capacitively coupled to a subscriber line carrying upstream and downstream data signal" (Figure 4, elements 440A and 440B), wherein the paths through R7 and R8 teach "a hybrid input"; the paths through R5 and R6 teach "receive input"; and outputs from 440A and 440B teach "a hybrid output";

"a driver providing the upstream data signal to the subscriber line and the hybrid input, wherein the driver is capacitively coupled to the hybrid input, wherein the hybrid output provides the extracted downstream data signal from the subscriber line" (Figure 4, elements 430B, 430C).

Regarding claim 2, Gambuzza further teaches the claimed subject matter "wherein the hybrid network resides on an integrated circuit die" in Col. 3, lines 46-48.

Application/Control Number: 09/847,188

Art Unit: 2634

Regarding claim 3, Gambuzza further teaches the claimed subject matter "wherein the driver resides on the same integrated circuit die" in Col. 3, lines 46-48.

Regarding claim 5, Gambuzza further teaches the claimed subject matter "wherein the upstream and downstream data signals are multitone modulated data signals" Col. 3, line 20.

3. Claims 6, 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Hjartarson et al. (US 6,295,343) (hereinafter Hjartarson).

Regarding claim 6, Hjartarson teaches the claimed subject matter "a hybrid network coupled to receive an upstream data signal and a downstream data signal communicated on a subscriber line, the hybrid network extracting the downstream data signal, wherein the hybrid network order is less than or equal to 2" in Figures 6, 7, all elements except elements 407, 407; Col. 7, lines 25-28.

Regarding claim 10, Hjartarson further teaches the claimed subject matter "the hybrid network is tuned to behave substantially as a first order network" in Col. 7, lines 25-28.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/847,188 Page 4

Art Unit: 2634

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gambuzza.

Regarding claim 4, the claimed subject matter "wherein the hybrid network is a complementary metal oxide semiconductor integrated circuit" would have been obvious to one skilled in the art at the time of the invention since CMOS is the technique of choice for IC.

6. Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hjartarson in view of Gambuzza.

Regarding claim 11, Hjartarson teaches all the claimed subject matter in claim 11, except for the claimed subject matter "wherein the hybrid network resides on an integrated circuit die". However, this claimed subject matter would have been obvious to one skilled in the art, i.e. as taught by Gambuzza in Col. 3, lines 46-48.

Regarding claim 12, the claimed subject matter "wherein the hybrid network is a complementary metal oxide semiconductor integrated circuit" would have been obvious to one skilled in the art at the time of the invention since CMOS is the technique of choice for IC.

Regarding claim 13, Gambuzza further teaches the claimed subject matter "wherein the upstream and downstream data signals are multitone modulated data signals" Col. 3, line 20.

Allowable Subject Matter

Application/Control Number: 09/847,188

Art Unit: 2634

7. **Claims 7-9** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tamura et al. (US 6,498,511) disclose a Receive, Hybrid Circuit, Driver Circuit, And Signal Transmission System For Bidirectional Signal Transmission For Carrying Out Such Signal Transmission In Both Directions Simultaneously.

Williamson et al. (US 6,477,249) disclose a Communication Signal Splitter And Filter.

Strait (US 6,266,367) discloses a Combined Echo Canceller And Time Domain Equalizer.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 703-306-5536. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 305-5500.

Page 6

Dac V. Ha Examiner

Art Unit 2634